

## On-Orbit Resources

**AS OF** 15-AUG-03

**ORG** OC/MI&O

**POC** [CREASY, SUSAN](#)

### STATUS SUMMARY



Status is 92% satisfactory. Of the Program's operations/on-orbit readiness-related products, 2% have serious and 6% have moderate issues. The overall status is Green, there are issues with, lack of agreement with Russia on allocation for Cargo, funding to provide addition Progress vehicle support. There is also an issue with on orbit internal stowage. The change from Shuttle to Progress/Soyuz for re-supply has affected the ops resources, and cargo allocation up-mass and return capability.

### DESCRIPTOR

The On-Orbit Resource Manager Level Performance Indicator allows the Program to assess its performance relative to requirements and/or schedules for EVA and other ISS crew training, crew time, cargo allocation, internal and external stowage, waste containers, food, water, altitude/life, propellant, power, oxygen, comm and other resources.

[ARCHIVE](#)

[View or Download in Original Format](#)

For application support contact: [Stefany C. Bartz](#)  
 Curator: [Linda Ford](#), Barrios Technology, Inc.  
 Responsible NASA Official: [Leasa Butler](#)  
 Last Updated: July 22, 2003

Current View: ISS - ISS\_KPPIs

PI: 7 of 15

[PI LIST](#)

[DETAILS](#)

[POC](#)

[PREV](#)

[NEXT](#)

[HOME](#)

Views: [Select View](#)

# ISS Operations/On-orbit Resources Status

[ISS Replan Link](#)

[Consumables](#)

Chart Owner: OC/D Pallensen/Phone: x4-7054 Last Update: 8/13/03



G



**Purpose:** Show progress toward top level ISS operations/on-orbit resource readiness to support the program. Basis is status of operations/on-orbit resources relative to requirements and schedules. **Goal:** All operations/resources needed for on-orbit readiness meet requirements and/or schedule. **Metric Summary:** Status is 92% satisfactory. Of the Program's ops/on-orbit readiness-related products, 2% have serious (Red) and 6% have moderate (Yellow) issues, contrasted with 0% and 4% on 7/18/03.

## Readiness Criteria for Known Problems

**Near Term Stages** (next major milestone = SORR)

• **Green**-credible plan and resolved by SORR

• **Yellow** or **Red** (problem severity)-questionable plan

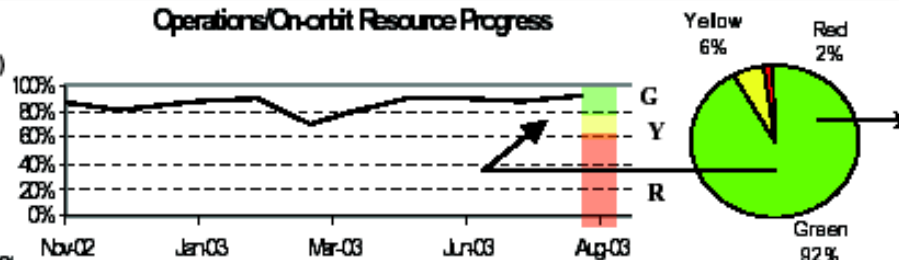
**Farther Out Stages** (SORR-6 months)

• **Green**-credible plan and resolved by next major milestone

• **Yellow** or **Red** (problem severity)-questionable plan

ISS Operation

## Operations/On-orbit Resource Progress



## ISSP Stoplight Criteria

- 81-100% = Green Status
- 71-80% = Yellow Status
- 0-70% = Red Status

IDRD Assembly Sequence	Increment 7					Increment 8					Increment 9				Increment/U/LF1		Increment/12.A.1		
	Stage 12P	Stage 7S	Stage 13P	Stage 14P	15P	8S	16P	17P	ATV1	Stage U/LF1	Stage 12A	Stage 12.A.1	Stage 13A	Stage 13.A.1					
	08/08/2003	10/18/2003	11/28/2003	01/08/2004	03/25/2004	04/25/2004	06/20/2004	08/20/2004	09/27/2004	03/11/2004	07/24/2004	09/13/2004	12/15/2004	02/17/2005					
Ops/Resources (IM Overview)	G	G	G	G	G														
-Expedition Summary (OC3)	G	G	G	G	G														
Operations (MOD and EVA)																			
-Training (MOD)	G	G	G	G	G														
Resources																			
-Crew Time (OC3/0.2)	G	G	G	G	G														
-Internal Stowage (OC4/OM)	★ Y	G	★ Y	★ R	★ R														
-Ext. Stowage-P/L Attach (OM)	G	G	G	G	G														
-Cargo Allocations (OC3)	G	Y	Y	Y	Y														
-Waste Containers (OC4)	G	G	G	G	G														
-LiOH Canisters (OC5)	G	G	G	G	G														
-Crew Provisions (OC5)	G	G	G	G	G														
-Food (OC5)	G	G	G	G	G														
-Water (OM)	G	G	G	G	G														
-Attitude/On-orbit Life (OM)	G	G	G	G	G														
-Propellant (OM)	G	G	G	G	G														
-Power (OM)	G	G	G	G	G														
-Thermal (heat rejection) (OM)	G	G	G	G	G														
-Oxygen (OM)	G	G	G	G	G														
-Nitrogen (OM)	G	G	G	G	G														
-S-band Up/Downlink (OD)	G	G	G	G	G														
-Ku-band Downlink (OD)	G	G	G	G	G														

Under Review

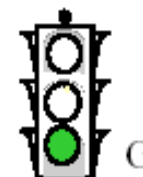
G = Green, Y = Yellow, R = Red, Blank box = no data, / = none,

Source = ISS Office Mors+IMs+ISS Monthly Program Review +MOD SORR = Stage Readiness Review ★ = Status degradation or Red status

# Red/Yellow Key ISS Ops/On-orbit Resources Issues (Backup to Ops/On-orbit Resources chart)

Chart Owner: OC/D. Pallesen Phone: x4-7054

Last Update: 813/03



**Purpose:** This chart is keyed to the Ops/On-orbit Resources chart and provides technical or schedule issues and any degradation since the last metrics review which threatens the conduct of successful Stage Operations Readiness Reviews. **Goal:** The goal is to remove all issues prior to the SORRs. Sources are ISS Office Mgrs, IMs, MOD, and the ISS Monthly Review package.

## Increment 7

•**Internal Stowage-** The internal stowage is under the stowage volumetric control limit, however, there are some violations of storage constraints that are being addressed through an on-orbit stowage Anomaly Resolution Team (ART).

## Increment 8

•**Cargo Allocations** – Requirements for Logistics and Maintenance, Provisions, and Utilization have been reduced to fit within Russian Vehicle capability. RSC-E has not agreed to return any hardware on 6S. Manifests for 7S and 13P are in negotiation now. Russian funding not yet approved for 13P, 14P or 15P.

•**Internal Stowage-** The internal stowage is predicted to be very close to the stowage volumetric control limit after 13P unloading and over the Stowage Volumetric control limit after 14P and 15P unloading. As part of the ART and associated IMMT actions, a full review is being performed to determine ways to mitigate this issue prior to 13P.